

GPS Vehicle tracker (LDW-TKV106)

(GPS+GSM+SMS/GPRS)

User Manual

(1.4 Version)



Please read this manual carefully before attempting installation and online activation.

Pictures are for indication and illustration purposes only.

1. Accessories:



power cord(standard)



Relay(standard)



Microphone(standard)



SOS Alarm button
(standard)



user manual
(standard)



USB cable (optional)

Please check the accessories before using.
Pictures are for indication and illustration purposes only.

2. Features

- GSM 850/900/1800/1900 Quad band
- Wide for voltage input range: 9-36V DC
- GPS continuous positioning, GPRS timing interval
- Real-time tracking, history playback
- Check location information via SMS and GPRS (TCP)
- Tele-cutoff (petrol) function
- SOS alarm
- ACC ignition detection and Vibration alarm
- Low battery alert
- Over-speed alarm
- Voice monitor function
- GEO fence
- Compatible with external connection through (serial port)

2.1.1 Technical Specifications

GSM Module	GSM850/900/1800/1900MHz
GPS Chip	SIRF IV Chip
GPS Sensitivity	-159dBm
GPS Centual	L1, 1575.42MHz
GPS Accuracy	5-25m
GSM Accuracy	100-500m

Speed Accuracy	0.1m/s
Time Accuracy	Same as GPS
Warm status	1S
Cold status	38S
Highest altitude	18000M
Max speed	515 M/S
Acceleration of Gravity	< 4g

2.1.2 Others

Temperature	-20---65℃
Humidity	5%---95%
Voltage	10V—25V
Power	10V—25V
Average Power	<80MA
LED	Indicate the working condition and other conditions of GPS & GSM
External Alarm Switch	For Emergency

2.2 RED LED (power/working/status)

LED Status	Meaning
Continuously in bright state	Working normally
Continuously in dark state	Low battery/power off

2.3 Green LED (GSM status indicator)

LED Statue	Meaning
flashing	Weak GSM signal/searching GSM signal
Continuously in bright state	GSM conversation/Start GPRS
Continuously in dark state	GSM not located

2.4 Blue LED (GPS status indicator)

LED Status	Meaning
Flashing	Weak GPS signal/Searching GPS signal
Continuously in bright state	GPS located
Continuously in dark state	GPS not located

2.5 Ignition detection indication

Three (blue/red/green) LEDs are in cycling flashing.

3. Interface introduction



4. Method of installation

4.1. Preparation before installation

4.1.1 Open the packing box to check whether the type of device is correct and whether the accessories are included, or else please contact your distributor.

4.1.2 Choose SIM card: each device needs to insert a GSM SIM card. Please refer to the distributor's suggestions to choose the SIM card.

4.1.3 About the battery switch. You need to make sure the device battery is on before installation. Pls refer to the following:

1). Battery switch off:



2) Battery switch on:



4.1.4 Installing SIM card: The SIM card slot is on the right side of device. Open the SIM card silicon seal, then insert the SIM card to the slot (do not insert the SIM card backwards).When the SIM card is ready you will hear a click. Or else please insert again and then replace the silicon seal.

Note:

Power off before installing or removing the SIM card.

The SIM card used should be enabled for GPRS.

The SIM card used should be enabled for caller ID.

If there is a power on password, or pin, please cancel it;

Ensure the SIM card can send and receive SMS.

4.2 Installation

The device installation is covert. Please refer installation to an auto electrical contractor.

NOTE:

4.2.1 To prevent theft of the device, it should be installed as covertly as possible. Covertly installation is suggested.

4.2.2 Avoid placing the device close to higher power electrical devices, such as reversing radar, anti-theft device or other vehicle communication equipment;

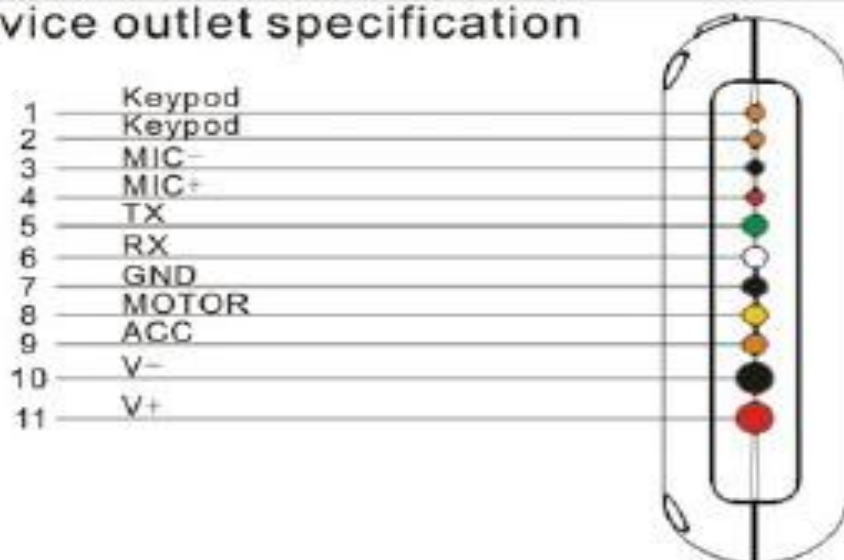
4.2.3 The device should be fixed into position with cable ties or wide double-side tape.

4.2.4 The device has built-in GSM antenna and GPA antenna. During installation, please make sure the receiving side face is up, with no metal object above the device to interfere with GPS reception. The following places are suggested for installation: shelter in the decorated board below the front windshield; shelter around the front instrument panel (non-metallic material face); in the decorated board below back windshield;

Notice:

If the windshield is pasted with metal thermal-protective coating or heating coating. It may affect the receiving signal. In this case, please change the installation place.

4.3 Device outlet specification



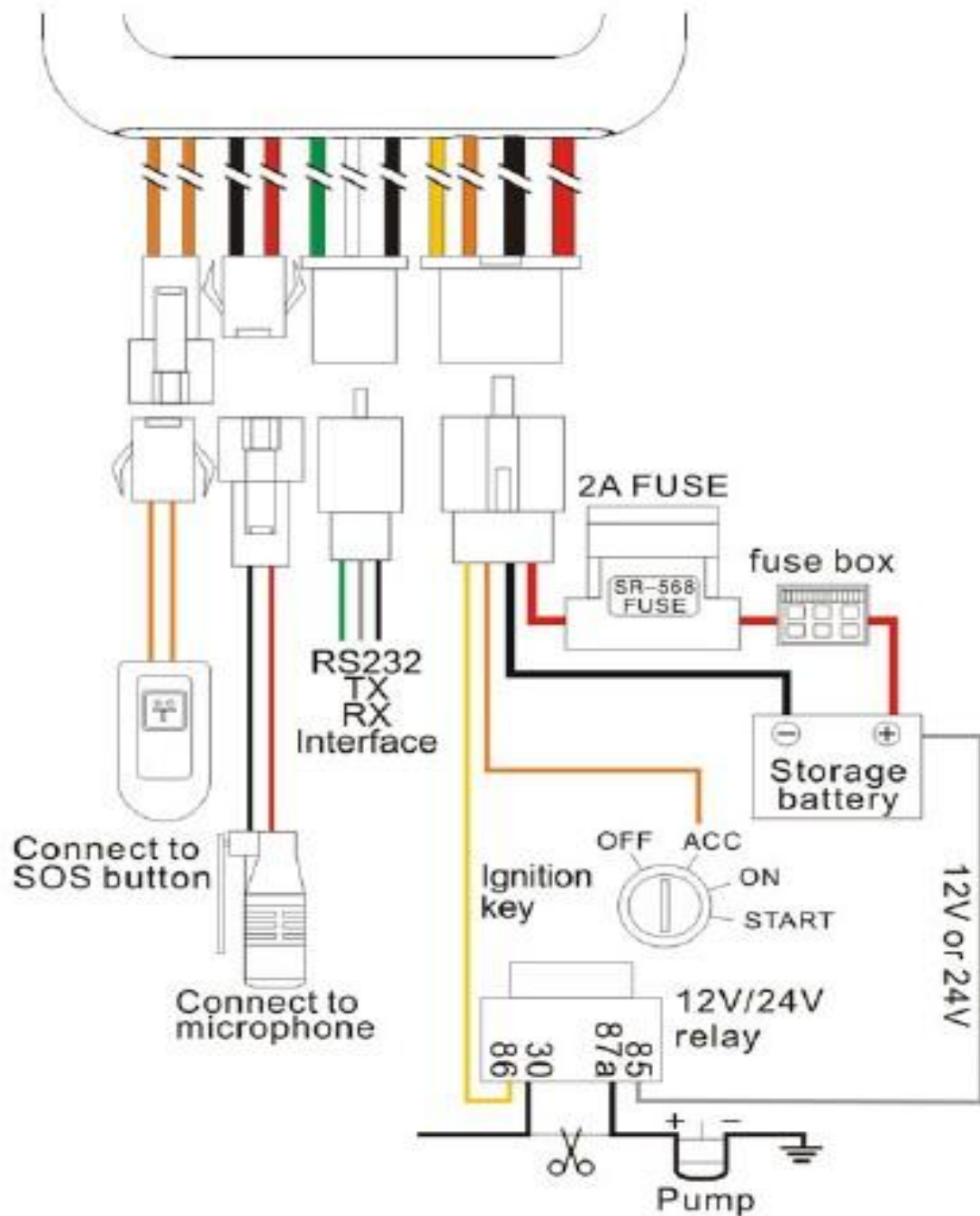
Line No.	Specification	Color	Instruction
1.2	Keypod	Orange/Orange	Connect to SOS button
3.4	MIC-,MIC+	Black/Red	Connect to Microphone
5	TX	Green	Sending data(TX)backup
6	RX	White	Receiving data (RX)backup
7	GND	Black	Ground wire
8	MOTOR	Yellow	Connect to relay control line
9	ACC	Orange	Connect to ACC ignition
10	V-	Black(thick)	Vehicle12V/24V negative storage battery
11	V+	Red(thick)	Vehicle12V/24V positive storage battery

Notes of the relay wiring

The relay wiring of pump: oil connectors of both ends are affine white line (85)and a fine yellow line (86).The fine white line (85) is connected to vehicle positive power (+12V).The fine yellow line is connected to the device relay control line.

Cut off the positive connection line of the pump: then connect in series to the relay N.C contact (thick green line 87a) and the other end relay COM contact (thick green line 30).

4.4 Device wiring diagram



5. Cautions of device wiring

5.1 Power/ACC/Tele-cutoff (petrol/electricity) control line (4pin)

5.1.1 The standard voltage is 9V-36VDC. Please use the power Line which provided by the manufacturer. The red line is the positive. The black line is the negative. The negative should earth alone or link iron during installing. Do not connect it to other ground wire.

5.1.2 ACC line (orange) is connected to the ACC switch of the vehicle. Please make sure to connect the ACC line. The tracker will decide whether to enter ignition detection according to ACC status. If do not connect to ACC line, the device will enter ignition detection status. If the vehicle vibrates when moving, it will activate the vibration alarm. If there is no need for the theft proof function, connect the ACC line to the positive in parallel and keep high level.

5.1.3 Tele-cutoff (petrol/electricity) control line (yellow) is connected to pin 86 of the Tele-cutoff (petrol/electricity) relay (equal to the yellow line of the relay socket) .

5.2 USB cable (3 pin)

Firmware updating interface/expanded function to reserve space.

5.3 MIC line (3 pin)

Externally connect to microphone for voice monitor function.

5.4 SOS line (2 pin)

Externally connect to SOS switch for SOS function.

6. SMS command format

Note: All the setup below can be only made by Center number.

Super User Setup

Set the new center number and new password by SMS through mobile phone. If the setup is successful, the module will send a reply with 'Config OK the Main User and Password Is Reset To 13689645010 (center no.): 123456 (new password)'.

Format: #CJML# SN code # new password (6 digits) # Center number#
SN code pls checking it with backside of product.

Example: #CJML#886600000633#000000#13689645010#

Note: Center number must be a mobile phone number, telephone number will not work.

Center Number Setup

Set the center number by SMS through mobile phone. If the setup is successful, the sender will receive "CONFIG OK The main user is: 13286689393" from the tracker

Format: #710# former password # new password (6 digits) #center number#

For example: #710#000000#000000#13689645010#

Note: All alarming information thereafter including SOS, low power, electronic fence etc. will be sent to this number. 000000 is the default password.

APN (Access Point Name) Setup

Set APN by SMS through mobile phone. If the setup is successful, the sender will receive "CONFIG OK" from the tracker

Format: #802#GSM provider name #APN # Log user name # Log password #

The default APN is CMNET, if the APN doesn't have login user name and password, it can be set 0.

Example 1: #802#Chinamobile#CMNET#0#0#

APN is CMNET, no login user name, no login password

Example 2: #802#CHINAMOBILE#CCDLN#QIUXIA.21#RX0000#

APN is CCDLEN; the login user name is QIUXIA.21 and login password is RX0000.

Note: The default APN of this product is CMNET.

Server connection Setup

Format: #803# domain name or IP address # port number#

This command is used to set GPRS center server address, which could be fixed IP number. After the setup is successful, the module will send a reply with 'config ok, the ip server is 59.188.20.67:8545'.

Example: #803#59.188.20.67#8545#

Setup via domain name:

Example: #803#www.gps288.com#8545#

Regular Upload Interval Setup

The defaulted factory upload time interval of this device is 10 seconds for getting the point and uploading one point location information. The user could change such parameter according to actual demand.

Format: #730# sampling interval #

The value of sampling interval from 10 seconds to 3600 seconds

For example: #730#30#

Note: The parameter "30" indicates getting and uploading one point location information every 30s.

Vehicle Defense Setup

Note: You need to open the vehicle defense first, then you can use the vibration Alarm, or you cannot use vibration Alarm.

- 1) Open vehicle defense

Format: #911#

After sending command successfully, the tracker will return a message "config OK The Auto Alert Is: On".

- 2) Close vehicle defense

Format: #910#

After sending command successfully, the tracker will return a message "config OK The Auto Alert Is: Off".

Vibration Alarm Setup

Format: #ZDBJ # sensitivity (1-15) # alarm mode (0,1)#

Sensitivity "1" is the most sensitive and of course "15" is the most insensitive.

Alarm mode"0" indicates vibration alarm is closed.

Alarm mode"1" indicates the device will alarm you through calls or SMS.

Note: SMS will be sent only when the device is online on the tracking system.

For example: If you set #ZDBJ#1#1#, the device will send you back "Config OK The Vibrate Warning Is: 1 1"

That means that the tracker is in a most sensitive status and alarm by calls.

Cut oil supply by SMS

Format: #DY# password # state #

The value of state is "0" and "1","1" is cut off oil, "0" is restore oil

Example: #DY#000000#1#

For safety, this command will be function when the speed less than 5KM/h

After sending command successfully, the tracker will return a message "config OK" and cut oil supply of the vehicle.

Low Battery Alert Setup

Format: #DDBJ# state #

The value of state is "0" and "1","1" means "open low battery alert", "0" means "close low battery alert".

Example: #DDBJ#1#

After sending command successfully, the tracker will return a message "config OK Low Battery Alert Is: On".

Over-speed Alarm Setup

Format: #CSBJ# speed limit (km/h) # state #

The value of state is "0" and "1","1" means "open over-speed alarm", "0" means "close over-speed alarm".

Example: #CSBJ#80#0#

After sending command successfully, the tracker will return a message "config OK The Warning Speed Is: 80 Off".

Time Zone Setup

Format: #896# E or W # time zone #

The value of state is "E" and "w", "E" means "eastern time zone", "W" means "western time zone".

Example: #896#E#8#

After sending command successfully, the tracker will return a message "config OK Set Current time zone as: E8".

Note: The default time zone is GMT+8. So you need recover it to GMT 0 first with command "#896#w#8#". Then you can set your time zone accordingly.

Open GPS Signal

Note: Center number can send this command to open GPS. The tracker will begin to work with GPS signal. There is still GPS signal even the tracker is shutdown.

Format: #810#

After sending command successfully, the tracker will return a message "config OK".

Note: The default GPS signal state is open.

Close GPS Signal

Note: Note: Center number can send this command to close GPS. The GPS module will stop working and in this mode, there will be less power consumption. There is still no GPS signal even the tracker is shutdown.

Format: #811#

After sending command successfully, the tracker will return a message "config OK".

Pre-stored numbers Setup

Format: #711#password#phone number1# phone number2# phone number3# phone number4#

Note: phone no. 4 is the voice monitor no. and it cannot be the same one as center number or any other pre-stored

numbers. (Only this number can do voice monitor.)

For example: You want to set four stored numbers

#711# 000000#13567892314#13892341600#13625678900#13625678901#

The new numbers will replace the old numbers, and it will send confirmation to the sender if the password is right....CONFIG OK. Note: 13625678901 is the voice monitor no., only this number can make voice monitor.

SOS button (Emergency call button)

In case of emergency, please press SOS button over 3 seconds, center number will receive a call and SMS.

Note: SMS will be sent only when the device is online on the tracking system.

Device Setup inquiry

Format: #902#password#

Example: #902#000000#

After sending command successfully, the tracker will return a message "Settings: The Main User Is: 13689645010 The Auto Alert Is: Off Low Battery Alert Is On The Vibrate Warning Is :On The Alert Call Is :Off The Warning Speed is :Off".

Remote Restart

Format: #90382#password#

Example: #90382#000000#

After sending command successfully, the tracker will return a message "Config OK The Machine Will Restart!"

Restore factory settings

Format: #HFSZ#

Example: #HFSZ#

After sending command successfully, the tracker will return a message "Config OK Device Has Been Reset To Factory Setting"

7. SMS & Platform Tracking

SMS location inquiry

There is no need for Center number to add the password to inquiry. Other numbers need to add the password to inquiry.

1) Address tracking

Format: #666#password#

For example you send #666#000000# to the tracker, you will get a reply SMS as follow:

SN: 886600000525

No.106, Sanlian Road, Longhua Town, Bao'an District, Shenzhen, China.

Notes: Only when the device is online on the tracking system, it will send you back this SMS information.

2) Longitude & latitude tracking

Format: #888#password#

For example you send #888#000000# to the tracker, you will get a reply SMS with link.

<http://map.google.com/?q=22.677327N,114.120738E> SPEED: 000.0

Date: 12-05-28

Time: 15:52:04

IMEI: 353509000924608

Visit the link by your phone or computer; you will know the name of the location in detail.

When there is no GPS signal, you will get a repay SMS as follow:

MCCMNC: 460010 LAC: d1e3 CELLID: 2535

Tracking on platform

Please visit www.gps288.com or www.track188.com for online real-time tracking and fleet management.

For details, please refer to our tracking system user manual.

Notes

- 1. This non-waterproof equipment, please be sure to have waterproof bag.*
- 2. This equipment has to work with GSM network.*
- 3. Please ensure that there are enough expenses in SIM card in order to avoid the inconvenience of using.*
- 4. This equipment cannot work in the power failure state and outside the service areas, even if the registered users.*
- 5. This equipment supports GPS and GSM/GPRS double positioning, regarding as the same with the GPS positioning results.*
- 6. Please use this equipment in the legal areas. The consequences of any violation of the law will be undertaken by the users themselves.*